Decision Support Briefing
Tropical Depression Fred

Issued: 11:50 AM Friday, August 13, 2021

- Fred is forecast to regain tropical storm strength and will be near south Florida by Saturday morning. Fred will move along the west coast of Florida over the weekend.

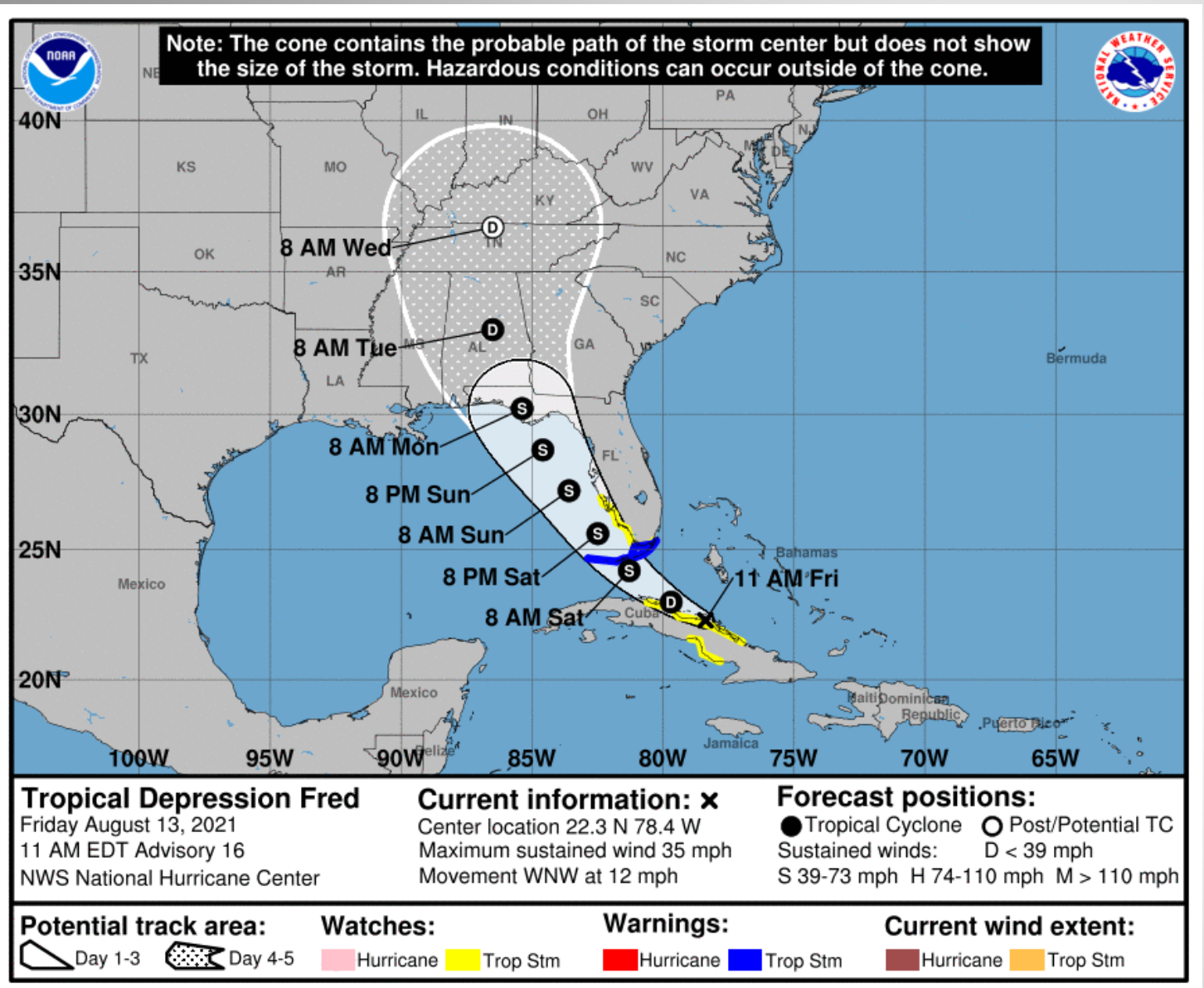
- Streamflows are currently above normal across most of Florida causing an inherent risk for flooding with additional heavy rainfall.

- The rivers with the most flood risk at this time are the smaller coastal rivers around Tampa as well as the Suwanee and Santa Fe watersheds. This is based on current conditions and potential rainfall.

- SERFC has begun to include 72 hours of QPF (forecast rainfall) in rainfall Florida to include more of the anticipated precipitation from Fred into our river model. With continued uncertainty, other river forecasts include only 48 hours of expected rainfall.

Latest on Fred

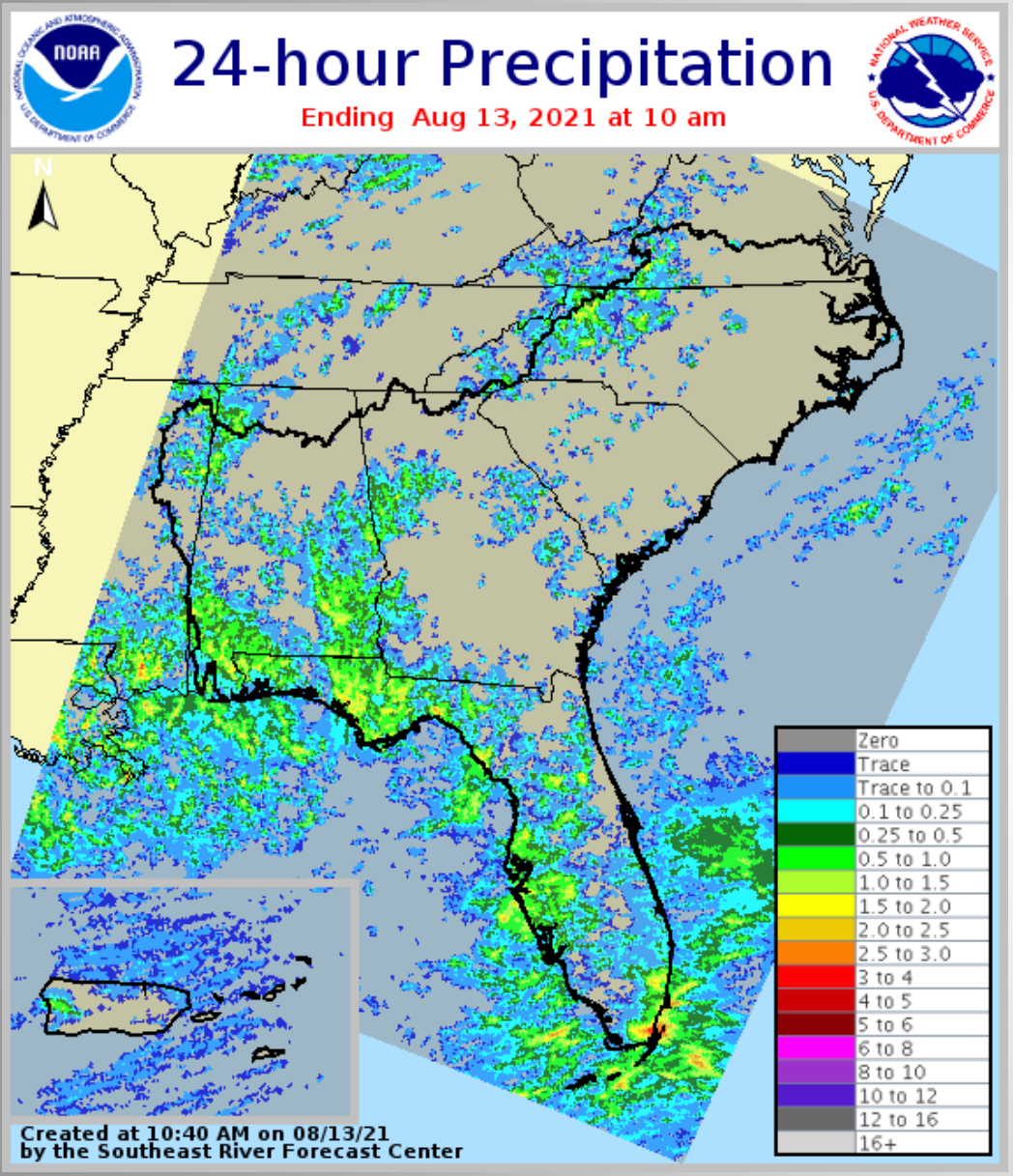
Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET



Fred is forecast to regain tropical storm strength and track northwest over the next couple of days.

Fred will be near south Florida by Saturday morning and will move along the west coast of Florida over the weekend.

Past 24-hour Precipitation



Over the past two weeks, well-above normal rainfall has occurred in the Big Bend area of Florida, including the Suwannee river basin.

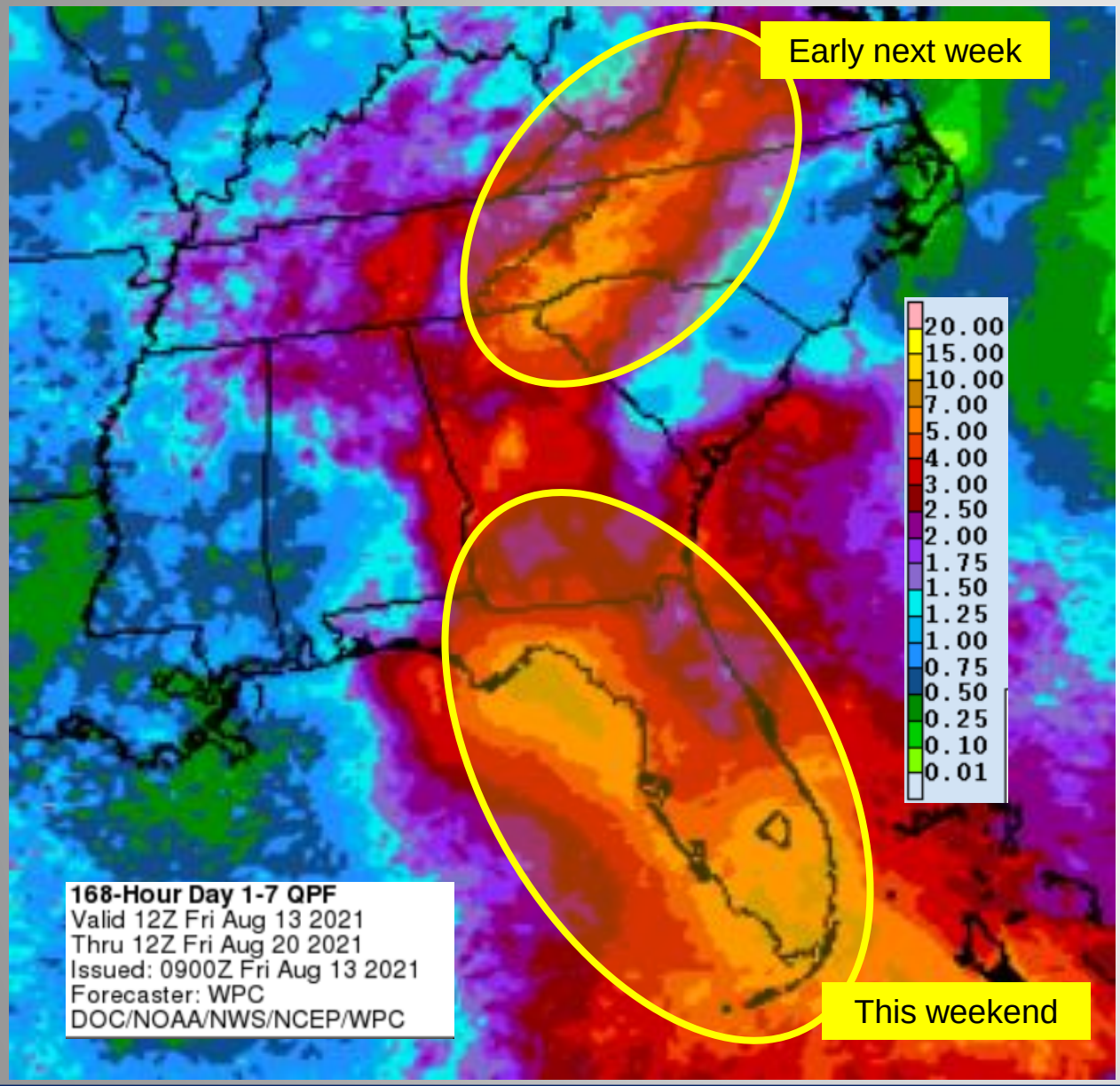
Typical summertime convection has brought additional rainfall over the Southeast over the past 24 hours.

Continued scattered showers and storms are forecast each day ahead of additional impacts from Fred.

7-Day Precipitation Forecast

8 am Friday 8/13 through 8 am Friday 8/20

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET

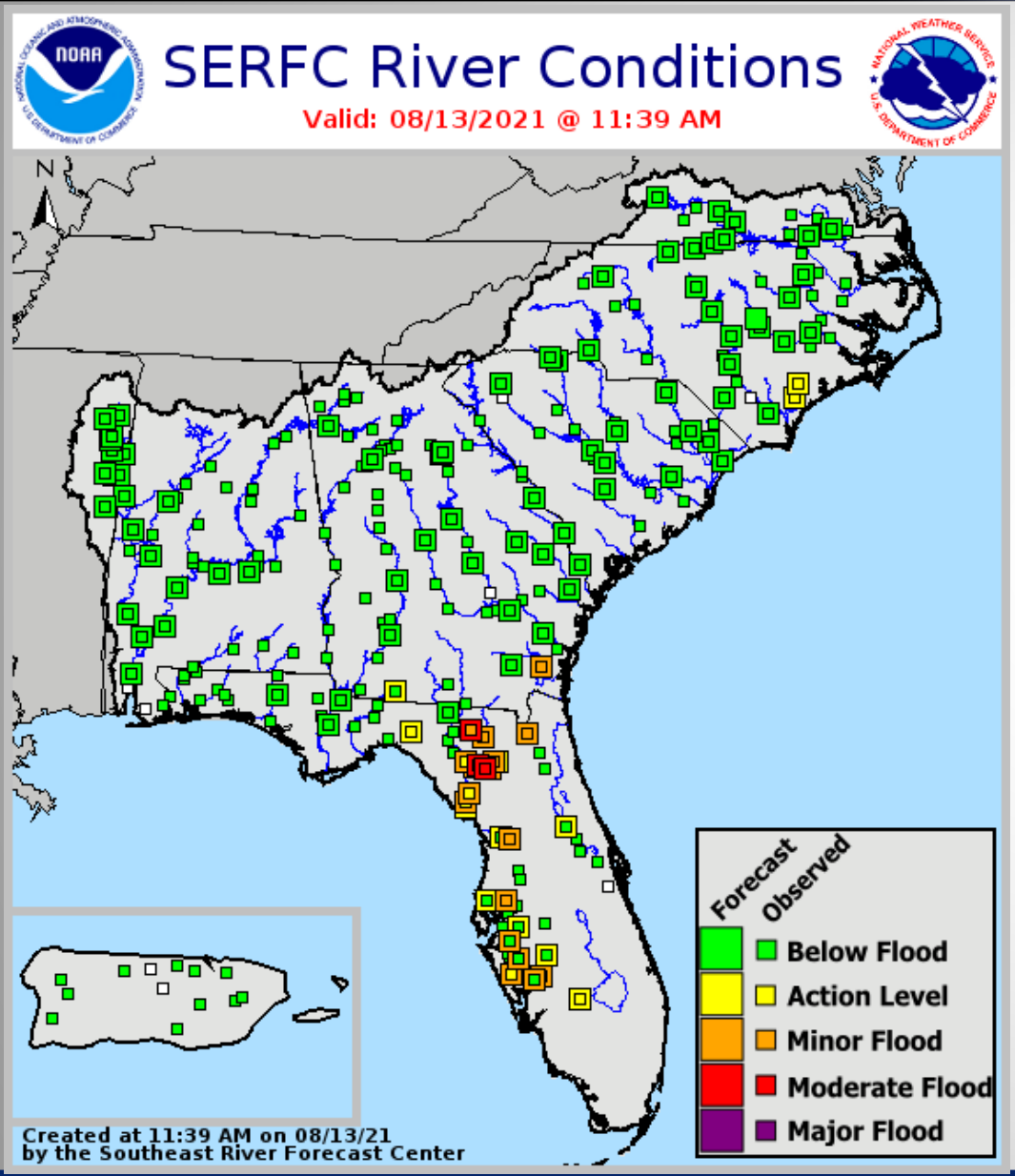


Today through Monday, 3 to 7 inches of rain is anticipated across the Keys, southern and central Florida north towards the Big Bend, with isolated maximum totals of 10 inches.

Early next week, heavy rainfall is forecast to spread into the southern Appalachians.

SERFC Current Conditions and Forecast

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET



Minor to moderate flooding continues along parts of the Suwannee and Santa Fe rivers. Many rivers will remain high into the weekend.

Additional rainfall from Fred could enhance flooding conditions, causing higher or new crests or slower recessions on rivers.

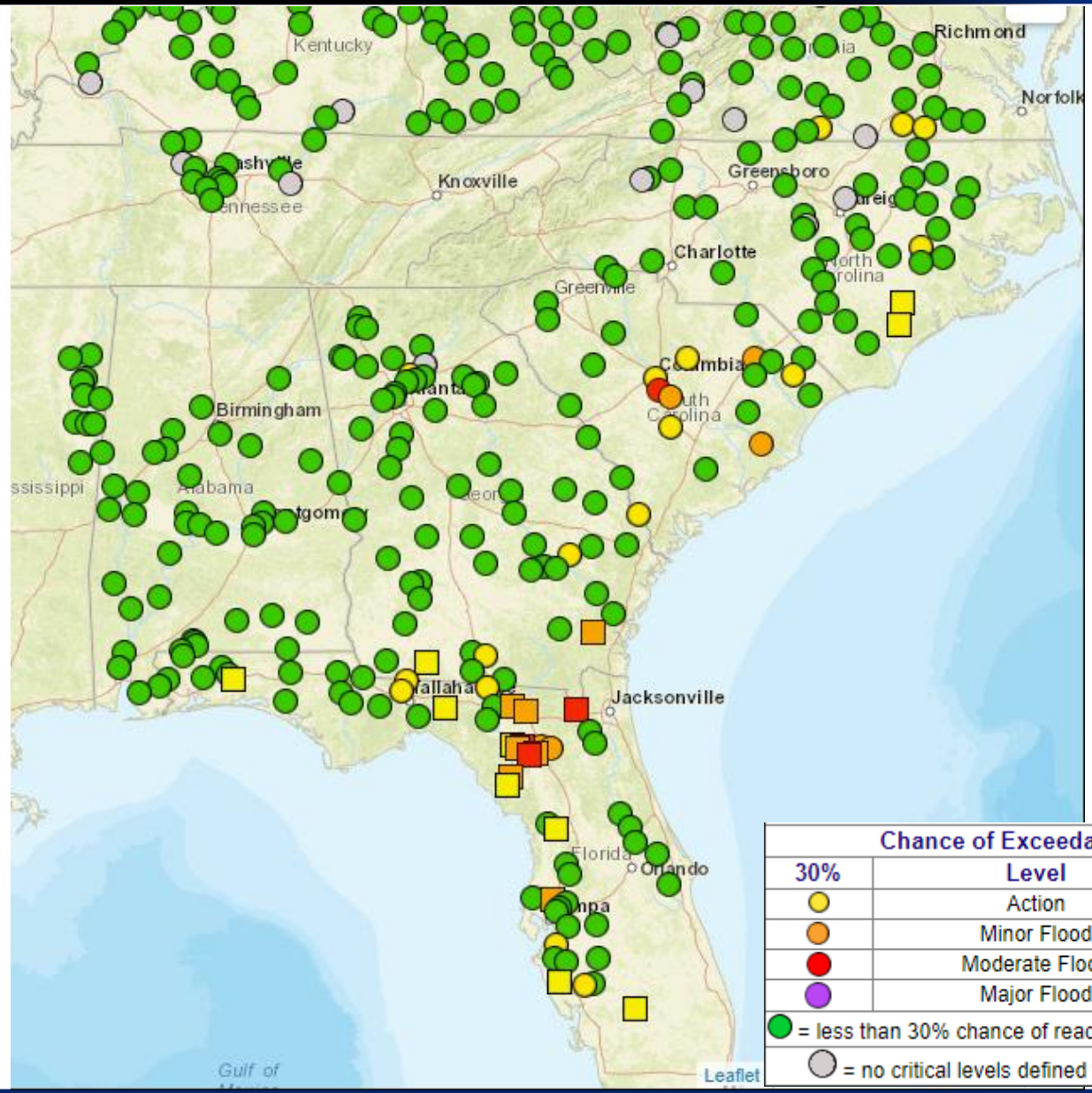
SERFC has begun to include 72 hours of QPF (forecast rainfall) in central Florida to include more of the anticipated rainfall from Fred into our river model.

Other river forecasts continue to include only 48 hours of expected rainfall.

Ensemble Forecasts (MMEFS)

MMEFS

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET



The Meteorological Model Ensemble Forecast System (MMEFS), to the left, is using the NAEFS model and addresses uncertainty in the longer lead rainfall forecast that helps to provide a confidence level for potential flooding. The NAEFS runs in our model every 12 hours.

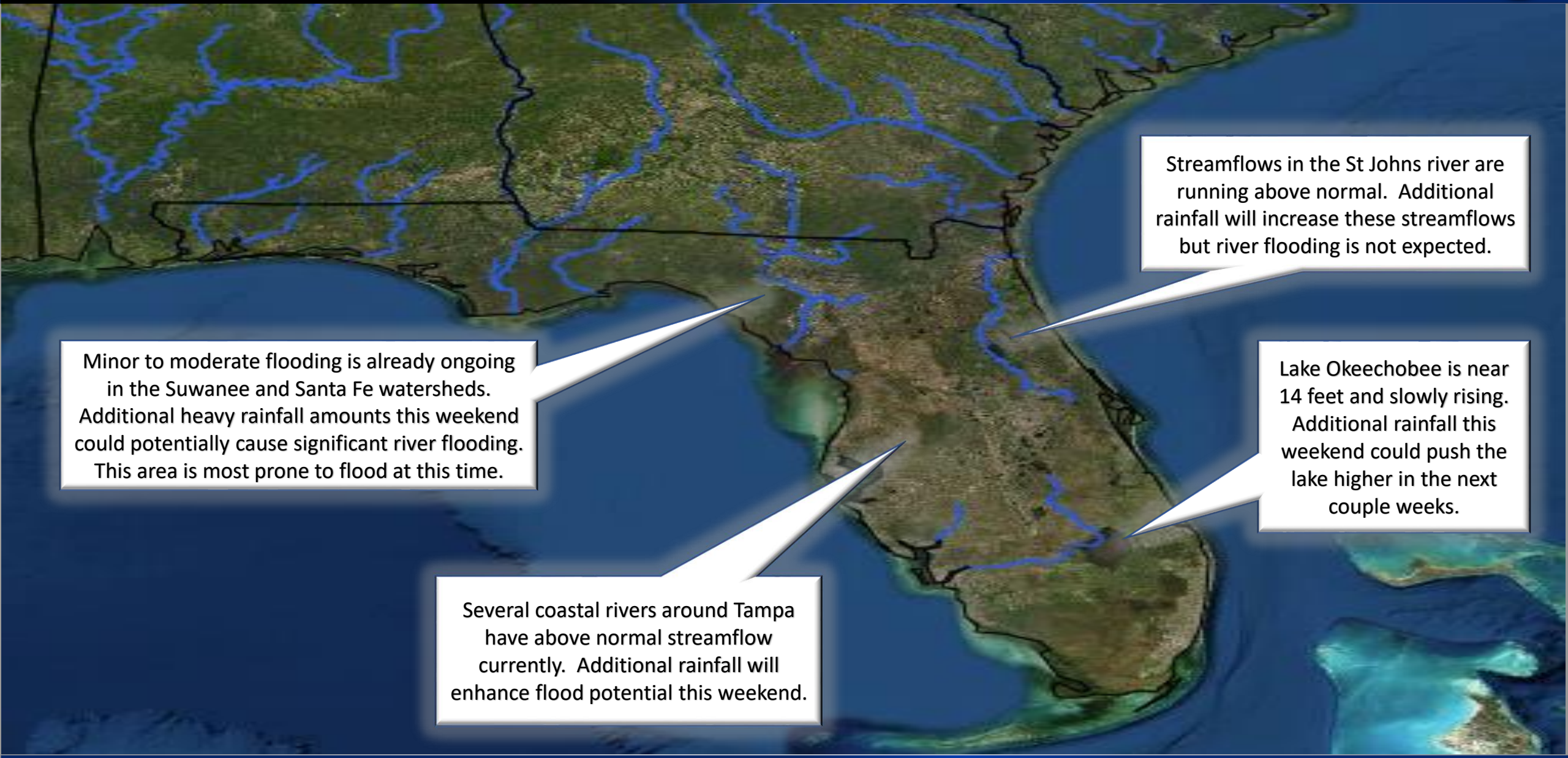
Mostly minor flooding is possible as Fred tracks north through the southeast US

When looking at these, know that this is helpful in describing the uncertainty outside the 48-hour QPF window we use for the river forecasts.

To take a closer look. Here is the link to more detailed information:
https://www.weather.gov/erh/mmefs

Fred and SERFC Flood Potential

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET



SERFC Operational Status

Normal Operating Hours

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET

- SERFC is currently in normal operations. Normal operating hours are from 6 am to 10 pm EDT. Please contact us if you have any questions or concerns.

- Additional briefings will be issued through the weekend.

Latest River Stages and Forecasts are available…click here!

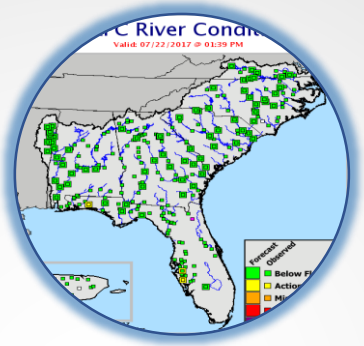
Please send all operational correspondence to sr-alr.rivers@noaa.gov or call the office directly.

Key Points

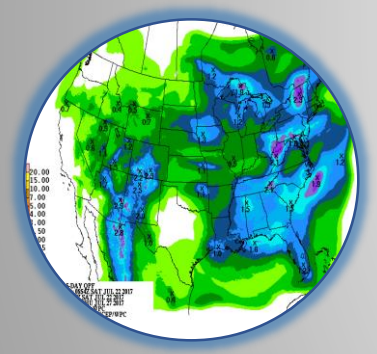
Decision Support Briefing.

Southeast River Forecast Center
Issued August 13, 2021 11:50 AM ET

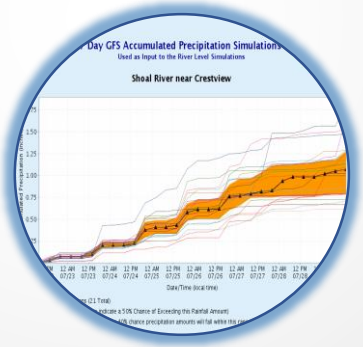
[Latest Radar]



[SERFC Quick Brief]



[Latest Forecast Rainfall]



[MMEFS – Ensemble River Forecasts]

The Decision Support Briefing will continue through the weekend.

- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email sr-alr.rivers@noaa.gov or contact your local NWS Weather Forecast Office.*

- *Remember: SERFC briefings cover **freshwater flooding**. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*